Polymer Degradation and Stability **18** (1987) 355–357

CONTENTS OF VOLUME 18

Number 1

Resist Polymers: Part VIII—Thermolysis of Bromine-containing Acrylate Polymers 1
PRADEEP K. DAHL, G. N. BABU (India)
and JAMES C. W. CHIEN (USA)

Resist Polymers: Part IX—Thermolysis of Chlorine-containing Acrylate Polymers 19
V. L. RAO, P. K. DHAL, G. N. BABU (India)
and JAMES C. W. CHIEN (USA)

Synthesis and Characterisation of Poly(Arylene Sulphides)—Part 8: Thermogravimetry of Copoly(Arylene Sulphides) 33
P. A. LOVELL and R. H. STILL (Great Britain)

Thermal Degradation of Bromine-containing Polymers: Part 10—Copolymers of 2,3-Dibromopropyl Methacrylate and 2,3-Dibromopropyl Acrylate with Methyl Acrylate 45
N. GRASSIE, M. A. M. DIAB and A. SCOTNEY (Great Britain)

Sulfur-containing Polymers: Thermal Behavior of Copolymers Containing Thiocarbonate Groups 63
FRANCESCO PILATI, CORRADO BERTI
and ELISABETTA MARIANUCCI (Italy)

The Mechanism of Biodegradation of Polyethylene 73
ANN-CHRISTINE ALBERTSSON, SVEN OVE ANDERSSON
and SIGBRITT KARLSSON (Sweden)

Mechanisms of Antioxidant Action: Time-Controlled Stabilisation of Polypropylene by Transition Metal Dithiocarbamates 89
S. AL-MALAIAKA, A. MAROGI and G. SCOTT (Great Britain)

Number 2

Thermal Degradation of Polycarbonate–Poly(Methyl Methacrylate) Blends by Thermal Volatilisation Analysis 99
A. RINCÓN (Venezuela) and I. C. McNEILL (Great Britain)

A Comparison of the Thermal Degradation Behaviours of Poly(Vinyl Acetate), Poly (Vinyl Alcohol) and Poly(Vinyl Chloride) 111
H. ANDERS and H. ZIMMERMANN (German Democratic Republic)

Polymer Degradation and Stability **(18)** (1987)—© Elsevier Applied Science Publishers Ltd, England, 1987. Printed in Great Britain

The Action of Anthraquinone Sensitizers in the Photo-oxidative Degradation of Low Density Polyethylene: Mechanical Evidence of Dark Processes . . . 123
M. RAAB, V. HNÁT, P. SCHMIDT, L. KOTULÁK, L. TAIMR and J. POSPÍŠIL (Czechoslovakia)

Photo-chemistry of Copolymers of Vinylidene Chloride and Vinyl Chloride: Part 1—Wavelength Effects on Discoloration 135
SERGE GAUMET, JEAN-LUC GARDETTE and JACQUES LEMAIRE (France)

Studies of the Photo-oxidation of Polydienes: Part 1—Photo-stabilising Effect of Some Derivatives of Diacetyl-monooxime Benzoylhydrazone Nickel (II) Chelates on *cis*-1,4-Polybutadiene 145
E. M. ABDEL-BARY, A. A. SARHAN and E. A. ABDEL-RAZIK (Egypt)

Thermal Degradation of Bromine-containing Polymers: Part 11—Blends of Poly(2,3-Dibromopropyl Methacrylate) and Poly(2,3-Dibromopropyl Acrylate) with Poly(Methyl Methacrylate) and Poly(Methyl Acrylate) 157
N. GRASSIE, M. A. M. DIAB and A. SCOTNEY (Great Britain)

Photo-oxidation of Elastomers. A Fundamental Approach Based on the Study of a Series of Photo-sensitive Elastomeric Systems: A Review 163
J. A. BOUSQUET and J. P. FOUASSIER (France)

Announcement 187

Number 3

Mechanical Properties, Surface Morphology and Failure Mode of γ-Ray Irradiated Blends of Polypropylene and Ethylene-Vinyl Acetate Rubber 189
SABU THOMAS, B. R. GUPTA and S. K. DE (India)

Structure and Stability of Halogenated Polymers: Part 2—Chain-Chlorinated Polystyrene 213
I. C. McNEILL and M. ĆOŞKUN (Great Britain)

Fire Retardant Systems Based on Melamine Hydrobromide: Part I—Fire Retardant Behaviour 225
G. BERTELLI, G. CAMINO, L. COSTA and R. LOCATELLI (Italy)

Antagonism Between Hindered Amine Light Stabilizers and Sulfur-containing Compounds 237
KAZUMI KIKKAWA, YUTAKA NAKAHARA and YASUKAZU OHKATSU (Japan)

The Thermal Stability of Polyetherimide 247
HUANG FARONG, WANG XUEQIU and LI SHIJIN (China)

Molecular Structure, Hydrostability and Stabilization of Polyurethane Acetals . 261
V. V. PCHELINTSEV, A. YU. SOKOLOV, G. E. ZAIKOV (USSR) and C. R. H. I. DE JONGE (The Netherlands)

Book Review 269

Number 4

Degradation of Collagen and its Possible Applications in Medicine . . . 271
T. E. RUDAKOVA and G. E. ZAIKOV (USSR)

Thermal Degradation of Keto Polymers: Part 1—Poly(Vinylacetophenone) . 293
N. A. WEIR, K. WHITING (Canada), J. ARCT (Poland)
and G. McCULLOCH (Great Britain)

Fire Retardant Systems Based on Melamine Hydrobromide: Part 2—Overall Thermal Degradation 307
G. BERTELLI, P. BUSI, L. COSTA, G. CAMINO
and R. LOCATELLI (Italy)

Photo-stabilization of Polypropylene Film by Surface Photo-grafting . . . 321
HE MINGBO and HU XINGZHOU (China)

Photodegradation of Poly(Vinyl Acetate) 329
EVELYNE Y. L. VAIDERGORIN, M. EUNICE R. MARCONDES
and VICENTE G. TOSCANO (Brazil)

Direct Pyrolysis Mass Spectrometry of Diphenyl Methyl Allophanate . . 341
NORIMICHI YOSHITAKE, MUTSUHISA FURUKAWA
and TETSUO YOKOYAMA (Japan)

Automatic Equipment for Studying the Processes of Low-temperature Dehydrochlorination of Chlorine-Containing Polymers 349
O. V. NEPOCHATYKH, M. I. ABDULLIN, K. S. MINSKER,
G. E. ZAIKOV (USSR) and C. R. H. I. DE JONGE (The Netherlands)